

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name:	PS-based Fluoroliposome <sup>®</sup> -DBCO for Tracking and Detection (w/Rhodamine lipid, headgroup); PS:PC:Chol:DBCO (20:49:30:1 molar ratio)
Product Number:	FPSD-332
Brand:	Fluoroliposome®
Company Address:	ENCAPSULA NANOSCIENCES LLC 5409 Maryland Way, Suite 360 Brentwood, TN, 37027
Technical Phone: Fax: Emergency Phone:	615-884-4442 615-250-8747 615-438-8553

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Percent
Water	7732-18-5	>90
Sodium chloride	7647-14-5	<5
Potassium chloride	7447-40-7	<5
Disodium phosphate	7558-79-4	<5
Potassium phosphate	7758-11-4	<5
L-α-phosphatidylserine	383908-63-2	<5
L-α-phosphatidylcholine	97281-47-5	<5
Cholesterol	57-88-5	<5
1,2-distearoyl-sn-glycero-3-phosphoethanolamine -N-(dibenzocyclooctyl)	N/A	<5
1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine-N- (lissamine rhodamine B sulfonyl) (ammonium salt)	N/A	<5

# 3. HAZARDS IDENTIFICATION

### OSHA

No known OSHA hazards.

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Not a hazardous mixture of substance.



# Safety Data Sheet Version 1.1

Revision Date: 03/21/2018

HMIS RATING	
HEALTH HAZARDS:	0
FLAMMABILITY:	0
CHRONIC HEALTH HAZARDS:	0
PHYSICAL HAZARDS:	0
NFPA RATING	
	0
HEALTH HAZARD:	0
HEALTH HAZARD: FLAMMABILITY:	0
	· ·

POTENTIAL HEALTH EFFECTS	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

# 4. FIRST AID MEASURES

ΟΡΔΙ	EXPOSURE
UNAL	LAFOJORL

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



#### INHALATION EXPOSURE

If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.



#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water. Contact a physician.



#### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Contact a physician.



# 5. FIRE FIGHTING MEASURES

#### FLAMMABILITY

Not flammable or combustible.

#### **EXTINGUISHING MEDIA**

It is suitable to use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS** Wear self-contained breathing apparatus and protective clothing to prevent contact

with skin and eyes.

#### HAZARDOUS COMBUSTION PRODUCTS

Hazardous decomposition products formed under fire conditions; carbon oxides, nitrogen oxides and hydrogen chloride gas.

# 6. ACCIDENTAL RELEASE MEASURES

#### METHODS FOR CLEANING UP

Absorb any spilled material quickly using absorbent pads. Wipe area to remove as much of the liquid as possible. Apply bleach to the affected area and let sit for several hours. Clean the affected area thoroughly with soap and water to remove the bleach. Collect all cleanup materials and dispose of them in accordance with local, state and federal waste disposal laws.



### **ENVIRONMENTAL PRECAUTIONS**

Do not let product enter drains. If safe to do so prevent further leakages or spills.

#### PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid breathing in vapors, mist or gas. Ensure adequate ventilation. Prepare evacuation sites.

# 7. HANDLING AND STORAGE

#### HANDLING

User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Wash hands thoroughly after handling.





#### STORAGE

<u>Suitable:</u> Keep in tightly closed container. Store in temperature between approximately 2-8°C. Do not freeze.

# 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**ENGINEERING CONTROLS** 

Appropriate industrial hygiene.



#### PERSONAL PROTECTIVE EQUIPMENT

<u>Respiratory</u>: Where protection is desired, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand: Compatible chemical-resistant gloves

<u>Eye</u>: Where protection is desired, use chemical safety goggles with side shades conforming to EN166.

Skin and Body: Wear a complete suit protecting against chemicals, if desired.

#### **GENERAL HYGIENE MEASURES**

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

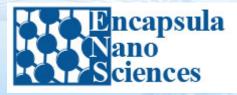
### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red translucent liquid
Safety data	рН 7.4
Melting point	N/A
Boiling point	N/A
Flash point	N/A
Ignition temperature	N/A
Lower explosion limit	N/A
Upper explosion limit	N/A
Water solubility	N/A
Density	N/A

## **10. STABILITY AND REACTIVITY**

#### **STORAGE STABILITY**

Store under recommended conditions.



#### MATERIALS TO AVOID

Strong oxidizing agents

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products formed under fire conditions; carbon oxides, nitrogen oxides and hydrogen chloride gas.

### **11. TOXICOLOGICAL INFORMATION**

- <u>IARC:</u> No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the IARC.
- <u>OHSA:</u> No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the OHSA.
- <u>ACGIH:</u> No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the ACGIH.
- <u>EPA:</u> No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the EPA.

#### ACUTE TOXICITY

No data available

#### Irritation and Corrosion

No data available

#### **ROUTE OF EXPOSURE**

Skin Contact:	May cause skin irritation
Skin Absorption:	May be harmful if absorbed through the skin
Eye Contact:	May cause eye irritation
Inhalation:	Materials may be irritating to mucous membranes and upper respiratory tract.
Ingestion:	May be harmful if swallowed

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



# **12. ECOLOGICAL INFORMATION**

Elimination information (persistence and degradability)	N/A
Ecotoxicity effects	N/A
Further information on ecology	N/A

# **13. DISPOSAL CONSIDERATIONS**

#### PRODUCT

Observe all federal, state, and local environment regulations. Contact a licensed professional waste disposal service to remove this material.

#### CONTAMINATED PACKAGING

Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
ΙΑΤΑ	Not dangerous goods

### **15. REGULATORY INFORMATION**

#### OSHA HAZARDS

No known OSHA hazards

#### SARA 302 COMPONENTS

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

#### SARA 313 COMPONENTS

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed threshold (De Minimis) reporting levels established by SARA Title III, Section 313

#### SARA 311/312 HAZARDS

No SARA hazards



### MASSACHUSETTS RIGHT TO KNOW COMPONENTS

This product does not contain any chemicals known to the state of MA to cause cancer, birth, or other reproductive defects.

#### PENNSYLVANIA RIGHT TO KNOW COMPONENTS

	CAS-No.	Revision Date
Water Sodium chloride Potassium chloride Disodium phosphate Potassium phosphate	7732-18-5 7647-14-5 7447-40-7 7558-79-4 7758-11-4	
L-α-phosphatidylserine L-α-phosphatidylcholine Cholesterol	383908-63-2 97281-47-5 57-88-5	
1,2-distearoyl-sn-glycero-3-phosphoethanolamine -N-(dibenzocyclooctyl) 1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine-N- (lissamine rhodamine B sulfonyl) (ammonium salt)	N/A N/A	

#### NEW JERSEY RIGHT TO KNOW COMPONENTS

	CAS-No.	Revision Date
Water	7732-18-5	
Sodium chloride	7647-14-5	
Potassium chloride	7447-40-7	
Disodium phosphate	7558-79-4	
Potassium phosphate	7758-11-4	
L-α-phosphatidylserine	383908-63-2	
L-a-phosphatidylcholine	97281-47-5	
Cholesterol	57-88-5	
1,2-distearoyl-sn-glycero-3-phosphoethanolamine -N-(dibenzocyclooctyl)	N/A	
1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine-N- (lissamine rhodamine B sulfonyl) (ammonium salt)	N/A	



#### **CALIFORNIA PROP. 65 COMPONENTS**

This product does not contain any chemicals known to the state of CA to cause cancer, birth, or other reproductive defects.

## **16. OTHER INFORMATION**

Copyright 2013 Encapsula NanoSciences LLC license granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not support to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Encapsula NanoSciences LLC shall not be held liable for any damage resulting from handling or from contact with the above product.